

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a computing system that is capable of dispatching a data structure within a Simple Object Access Protocol (SOAP) envelope for processing by groups of one or more software methods, a method for the computing system to perform deterministic rule-based dispatch of the (SOAP)-SOAP envelope to a group of one or more software methods for further processing, the dispatch being deterministic and resulting in a single rule despite the existence of multiple rules that conflict regarding which group of one or more software methods the (SOAP)-SOAP envelope should be dispatched, the method comprising the following:

an act of the computing system accessing a (SOAP)-SOAP envelope that includes a data structure that is to be dispatched to one or more software methods for processing;

subsequent to the act of accessing the (SOAP)-SOAP envelope, an act of the computing system evaluating a list of rules to identify a plurality of rules that apply to the dispatch of the data structure within the (SOAP)-SOAP envelope, wherein all of the rules within the list of rules are specific to dispatch of the data structure within the SOAP envelope to one or more software methods, such that the list of rules includes rules consisting of software method dispatch rules, and wherein each of the plurality of rules specifying a condition and a group of one or more software methods the (SOAP)-SOAP envelope should be dispatched to if the condition is met;

subsequent to the act of evaluating the list of rules, an act of the computing system resolving the plurality of rules utilizing one or more prioritizing mechanisms, wherein at least one prioritizing mechanism is configured to guarantee that only a single rule will prevail in the case of conflicting rules, to identify a single prevailing rule that will be applied for the dispatch of the data structure of the (SOAP)-SOAP envelope, wherein only the single prevailing rule will be applied for the dispatch of the (SOAP)-SOAP envelope to the group of one or more software methods; and

an act of the computing system dispatching the data structure of the (SOAP)-SOAP envelope to the group of one or more software methods specified by the single prevailing rule.

2. (Cancelled)

3. (Currently Amended) A method in accordance with Claim 1, wherein the act of resolving the plurality of rules ~~to identify a single prevailing rule~~ comprises the following:
an act of applying a first prioritization mechanism.

4. (Original) A method in accordance with Claim 3, wherein the first prioritization mechanism is selected from the group consisting of: an express dominance mechanism, a prioritization level mechanism, and a unique identifier comparison mechanism.

5. (Currently Amended) A method in accordance with Claim 3, wherein the application of the first prioritization mechanism narrows the plurality of rules ~~to the~~ to a single prevailing rule.

6. (Previously Presented) A method in accordance with Claim 5, wherein the application of the first prioritization mechanism guarantees that only one single rule will prevail under any circumstances from the plurality of rules.

7. (Original) A method in accordance with Claim 3, wherein the act of resolving the plurality of rules to identify a prevailing rule further comprises the following:

an act of determining that the application of the first prioritization mechanism still resulted in more than one rule; and
in response, an act of applying a second prioritization mechanism.

8. (Original) A method in accordance with Claim 7, wherein the second prioritization mechanism is selected from the group consisting of: an express dominance mechanism, a prioritization level mechanism, and a unique identifier comparison mechanism.

9. (Currently Amended) A method in accordance with Claim 7, wherein the application of the second prioritization mechanism narrows the plurality of rules ~~to the~~~~to~~ a single prevailing rule.

10. (Previously Presented) A method in accordance with Claim 9, wherein the application of the second prioritization mechanism guarantees that only one single rule will prevail under any circumstances from the plurality of rules.

11. (Currently Amended) A method in accordance with Claim 7, wherein the act of resolving the plurality of rules ~~to identify a prevailing rule~~ further comprises the following:

an act of determining that the application of the second prioritization mechanism still resulted in more than one rule; and
in response, an act of applying a third prioritization mechanism.

12. (Original) A method in accordance with Claim 11, wherein the third prioritization mechanism is selected from the group consisting of: an express dominance mechanism, a prioritization level mechanism, and a unique identifier comparison mechanism.

13. (Currently Amended) A method in accordance with Claim 11, wherein the application of the third prioritization mechanism narrows the plurality of rules ~~to the~~~~to~~ a single prevailing rule.

14. (Original) A method in accordance with Claim 13, wherein the application of the third prioritization mechanism guarantees that only one rule will prevail under any circumstances from the plurality of rules.

15. (Currently Amended) A method in accordance with Claim 11, wherein when application of the third prioritization mechanism does not narrow the plurality of rules ~~to the~~~~to a~~ single prevailing rule, the method further comprising the following:

an act of continuing application of prioritization rules until the plurality of rules is narrowed down to just the single prevailing rule.

16. (Previously Presented) A method in accordance with Claim 1, wherein the group of one or more software methods comprises a single method.

17. (Previously Presented) A method in accordance with Claim 1, wherein the group of one or more software methods comprises a temporally-ordered chain of a plurality of software methods.

18. (Currently Amended) A method in accordance with Claim 1, wherein the ~~(SOAP)~~ SOAP envelope is a first ~~(SOAP)~~ SOAP envelope, the plurality of rules is a first plurality of rules, the ~~prevailing~~single rule is a single first prevailing rule, and the group of one or more methods is a first group of one or more software methods, the method further comprising the following:

an act of accessing a second ~~(SOAP)~~ SOAP envelope that is to be processed;

subsequent to the act of accessing a second ~~(SOAP)~~ SOAP envelope, an act of evaluating the list of rules to identify a second plurality of rules that apply to the dispatch of the second ~~(SOAP)~~ SOAP envelope, each of the second plurality of rules specifying a different group of one or more software methods to which the ~~(SOAP)~~ SOAP envelope should be dispatched;

subsequent to the act of evaluating the list of rules, an act of resolving the second plurality of rules to identify a single second prevailing rule that will be applied for the dispatch of the second ~~(SOAP)~~ SOAP envelope; and

an act of dispatching the second ~~(SOAP)~~ SOAP envelope to the second group of one or more software methods specified by the single second prevailing rule.

19. (Previously Presented) A method in accordance with Claim 18, wherein the single first prevailing rule is the same as the single second prevailing rule such that the first group of one or more software methods is the same as the second group of one or more software methods.

20. (Previously Presented) A method in accordance with Claim 18, wherein the single first prevailing rule is different than the single second prevailing rule and the first group of one or more software methods is different than the second group of one or more software methods.

21. (Previously Presented) A method in accordance with Claim 20, wherein one or more software methods in the first group of one or more software methods are also in the second group of one or more software methods.

22. (Previously Presented) A method in accordance with Claim 21, wherein the group of one or more software methods are executed by the computing system.

23. (Currently Amended) A method in accordance with Claim 21, wherein the computing system is a first computing system, the group of one or more software methods being executed by a second computing system that the first computing system is capable of communicating with over a network, the act of dispatching the ~~(SOAP)~~-SOAP envelope to the group of one or more software methods comprising the following:

an act of sending the ~~(SOAP)~~-SOAP envelope to the second computing system over the network.

24. (Cancelled)

25. (Original) A method in accordance with Claim 24, wherein the list or rules is expressed using XPATH statements.

26. (Original) A method in accordance with Claim 1, wherein the list or rules is expressed using XPATH statements.

27. (Original) A method in accordance with Claim 1, further comprising:

- an act of accessing an instruction to amend the list of rules; and
- an act of automatically amending the list of rules in response to the instruction.

28. (Currently Amended) A computer program product for use in a computing system that is capable of dispatching a data structure within a Simple Object Access Protocol (SOAP) envelope for processing by groups of one or more software methods, the computer program product for implementing a method for the computing system to perform deterministic rule-based dispatch of the (SOAP)-SOAP envelope to a group of one or more software methods for further processing, the dispatch being deterministic despite the existence of multiple rules that conflict regarding where the (SOAP)-SOAP envelope should be dispatched, the computer program product comprising one or more computer-readable storage media that have stored thereon computer-executable instructions that, when executed by one or more processors of the computing system, cause the computing system to perform the following:

an act of the computing system accessing a (SOAP)-SOAP envelope that includes a data structure that is to be dispatched to one or more software methods for processing;

subsequent to the act of accessing the (SOAP)-SOAP envelope, an act of the computing system evaluating the list of rules to identify a plurality of rules that apply to the dispatch of the data structure within the (SOAP)-SOAP envelope, wherein all of the rules within the list of rules are specific to dispatch of the data structure within the SOAP envelope to one or more software methods, such that the list of rules includes roles consisting of software method dispatch rules, and wherein each of the plurality of rules specifying a condition and a group of one or more software methods the (SOAP)-SOAP envelope should be dispatched to if the condition is met (SOAP)-SOAP envelope;

subsequent to the act of evaluating the list of rules, an act of the computing system resolving the plurality of rules utilizing one or more prioritizing mechanisms, wherein at least one prioritizing mechanism is configured to guarantee only a single rule will prevail in the case of conflicting rules, to identify a single prevailing rule that will be applied for the dispatch of the data structure of the (SOAP)-SOAP envelope, wherein only the single prevailing rule will be applied for the dispatch of the (SOAP)-envelope to the group of one or more methods; and

an act of the computing system dispatching the data structure of the (SOAP)-SOAP envelope to the group of one or more software methods specified by the single prevailing rule.

29. (Cancelled)

30. (Currently Amended) A computer program product in accordance with Claim 29Claim 28, wherein the physical one or more computer-readable storage memory media comprises persistent memory.

31. (Currently Amended) A computer program product in accordance with Claim 29Claim 28, wherein the one or more computer-readable physical storage memory media comprises system memory.

32. (Cancelled)

33. (Currently Amended) A computer program product in accordance with Claim 28, wherein the act of resolving the plurality of rules ~~to identify a single prevailing rule~~ comprises the following:

an act of applying a first prioritization mechanism.

34. (Currently Amended) A computer program product in accordance with Claim 33, wherein the application of the first prioritization mechanism narrows the plurality of rules ~~to the~~ to a single prevailing rule.

35. (Currently Amended) A computer program product in accordance with Claim 33, wherein application of the first prioritization mechanism does not narrow the plurality of rules to ~~the single~~ a single prevailing rule, the method further comprising the following:

an act of continuing application of prioritization rules until the plurality of rules is narrowed down to just the single prevailing rule.

36. (Original) A computer program product in accordance with Claim 28, the method further comprising:

an act of accessing an instruction to amend the list of rules; and

an act of automatically amending the list of rules in response to the instruction.

Application No. 10/763,530
Amendment "D" dated June 16, 2009
Reply to Office Action mailed February 19, 2009

37-39 (Cancelled)

40. (Currently Amended) A computing system comprising the following:

one or more processors;

system memory;

one or more computer-readable storage media having stored thereon a list of rules, each rule specifying a condition and a group of one or more software methods that a data structure within a (SOAP) SOAP envelope should be dispatched to if the condition is met, the one or more computer-readable storage media further having stored thereon computer-executable instructions that, when executed by the one or more processors, causes the computing system to instantiate in the system memory the following:

a comparison module configured to access a (SOAP) SOAP envelope that includes a data structure that is to be dispatched to one or more software methods for processing and evaluate the list of rules to identify a plurality of rules that apply to the dispatch of the (SOAP) SOAP envelope;

a plurality of prioritization mechanisms configured to identify which conflicting rules take priority, each of the plurality of rules specifying a condition and a group of one or more software methods the (SOAP) SOAP envelope should be dispatched to if the when the condition is met, at least one of the prioritization mechanisms guaranteeing only one single prevailing rule will be applied to the dispatch of the data structure of the (SOAP) SOAP envelope and that none of the other rules contained in the list of rules will be applied to the dispatch of the data structure within the (SOAP) SOAP envelope, wherein all of the rules within the list of rules are specific to dispatch of the data structure within the SOAP envelope to one or more software methods, such that the list of rules includes rules consisting of software method dispatch rules;

a resolution module configured to use the plurality of prioritization mechanisms to identify the single prevailing rule that will be applied for the dispatch of the data structure of the (SOAP) SOAP envelope to the one or more software methods specified in the single prevailing rule; and

a dispatching mechanism configured to dispatch the data structure of the (SOAP) SOAP envelope to only the group of one or more software methods specified by the one prevailing single prevailing rule.